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SERIAL NUMBER	FILING DATE	FIRST NA	MED INVENTOR		ATTORNEY DOCKET N
07/683,016	04/10/91	NGUYEN		14	82-27750102-
				L	EXAMINER
				MAI,N	
RICHARD C. S ALLIED-SIGN	-			ART UN	IT PAPER NUMBER
P. O. BOX 2:					F.
MORRISTOWN,	NJ 07962		ت بر	2204	
This is a communication from th	e evaminer in charge of s	wour application		'DATE MAILE!	# 81/15/99 _
COMMISSIONER OF PATENTS		you application			JAN 28 199 3
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	f	· · · · · · · · · · · · · · · · · · ·	• • • • •		
This application has been	examined	Responsive to communi	cation filed on		☐ This action is made final
shortened statutory period :	for response to this a	ction is set to expire	/	8),	days from the date of this let
allure to respond within the p	period for response w	ill cause the application to	become abandone	d. 35 U.S.C.	133
art I THE FOLLOWING	ATTACHMENT(8) A	RE PART OF THIS ACTIO	, N:	-	
1. Notice of Reference			2. Notice re P	atent Drawing,	PTO-948.
8. Notice of Art Cited			-	-	Application, Form PTO-152.
5. Information on Ho	w to Effect Drawing C	hanges, PTO-1474.	• ⊔		• • • • • • • • • • • • • • • • • • • •
art II SUMMARY OF AC	CTION				
1. Ctaims	27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			are pending in the application
·		. •		•	
Of the abov	e, claims				are withdrawn from considers
2. Claims		· · · · · · · · · · · · · · · · · · ·			have been cancelled.
3. Cleims			<u> </u>	· ·	are allowed.
	917				
4. Ki Ctaims	- O. T		1 2		are rejected.
5. Claims					are objected to.
6. Claims		·	•	subject to rest	riction or election requirement
		e		•	
7. Li This application ha	as been filed with info	rmal drawings under 37 C	.F.R. 1.85 which are	acceptable for	examination purposes.
6. D Formal drawings a	re required in respon	se to this Office action.			
9. The corrected or s	rûbstitute drawinds ha	eve been received on	-	Under 3	7 C.F.R. 1.84 these drawings
are 🗆 acceptab	ile. 🔲 not acceptable	e (see explanation or Notic	e re Patent Drawing		
10. The proposed add	itional or substitute s	heet(s) of drawings, filed o	n	has (have) be	en approved by the
		miner (see explanation).	-	() 5.	
11. The proposed draw	wing correction, filed	on	has been 🔲 appro	wed	oproved (see explanation).
_				y has Libeen	received not been receiv
i∟i been filed in p	arent application, ser	ial no	; filed on .		
				ers, prosecution	as to the merits is closed in
accordance with ti	he practice (pot er Ex)	parte Quayle, 1935 C.D. 1	1; 453 O.G. 213.		
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Serial No. 07/683,016

Art Unit 2204

1. Claims 2 and 6 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, line 3, "8J/g" should be --8j/g--.

In claim 6, line 5, the value for energy-to-break is missing.

2. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

3. Claims 1-27 are rejected under 35 U.S.C. 103 as being unpatentable over Li et al. in view of Dunbar and Ancker '116.

Li et al. disclose a ballistic resistant composite comprising layers of fibrous materials in a rigid matrix having the characteristics substantially as claimed. Li et al. in col. 9, line 7+ teach the matrices can be thermoplastic or thermosetting resin of the types claimed by the applicants. While Li et al. do not teach the combination of these two resins, using matrices formed of thermoplastic and thermosetting resins would have been obvious since it is known to use such combination for forming a preformable mat. See Dunbar.

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Ancker discloses using a compatibilizing system to give a homogeneous and good mechanical properties to different types of thermoplastic materials when blending together. Based on this teaching it would have been obvious to one skilled in the art to form the matrix system of Li et al. using the mixtures taught by Dunbar and the Ancker's compatibilizing system for the noted improvement. Determination of an optimum or preferred amount of compatibilizing system used to obtain desired results is within the skilled in the art.

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Ngoclan Mai whose telephone number is (703) 308-0431. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0511.

Mai/msw-3

12-29-92

DONALD P. WALSH
SUPERVISORY PATENT EXAMINER

GROUP 2200